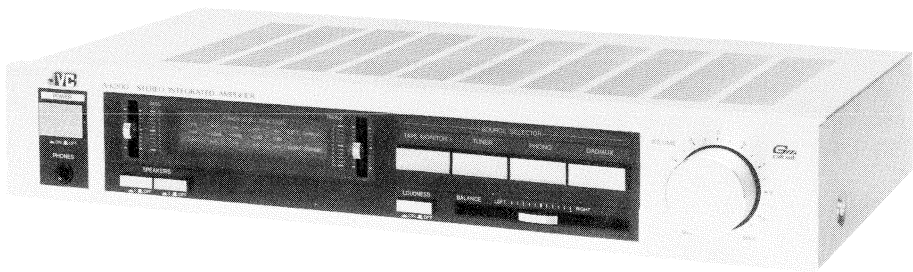
JVC

SERVICE MANUAL

STEREO INTEGRATED AMPLIFIER

MODEL A-K200/A-K200B

Model	Color Version
A-K200	Silver
A-K200B	Black



Contents

	Page
Safety Precautions	1-1
Service Precautions	1-1
1. Specifications	1-2
2. Servicing Method For AWG # 20 Wires With Clamping Terminals	1-2
3. Removal Procedures	1-3
3-(1) Metal Cover Section	1-3
3-(2) Front Panel Section	1-3
3-(3) LED Holder Section	1-3
3-(4) Level Indicator P. C. Board Section	1-3
3-(5) Power Transistor Replacement	1-4
3-(6) Removal of the Speaker Selector Knobs	1-4
4. Block Diagram	1-5
5. Power Amplifier Idling Current Adjustment Procedures	1-5
6-(1) A-K200 Schematic Diagram	1-6
6-(2) A-K200 Schematic Diagram (for U. S. A. & Canada)	1-7
7. Wiring Diagram	1-8
Parts List	Separate-volume Insertion

This manual combines two single volumes; Service manual and Parts list.

No. 2737
Jan. 1984

Safety Precautions

1. The design of this product contains special hardware, many circuits and components specially for safety purposes.
   For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after reassembling.
5. Leakage current check
   (Safety for electrical shock hazard)
   After reassembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method.
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).

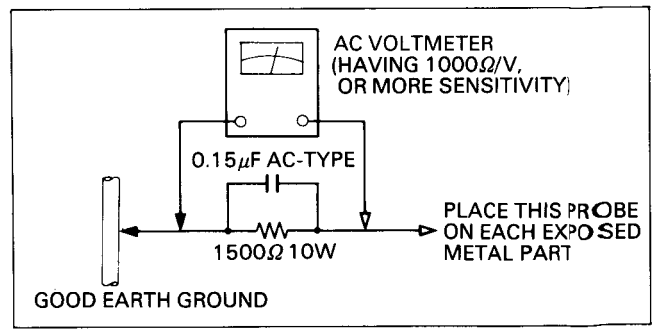


Fig. 1

Service Precautions

1. Before repairing, be sure to discharge electric capacitors across a resistor of about 100 ohms/1 watt.
2. When replacing the power transformer, pay attention to the following points.
   (1) When removing the power transformer retaining screws, take care not to damage the parts located around the transformer (as space is limited).
   (2) When removing the fuse P. C. Board, do not apply the soldering iron to the P. C. Board for too long a time (to prevent pattern peeling off).
   (3) Before removing the source selector knob, remove the metal cover. Set the source selector to off position and press it from the inside to remove it (to prevent damage).

1. Specifications

Output Power	: **25 watts per channel, min. RMS, both channels driven, into 8 ohms from 40 Hz to 20 kHz, with no more than 0.5% total harmonic distortion**
	: 27 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.7% total harmonic distortion
	: 23 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.08% total harmonic distortion
Total Harmonic Distortion	: 0.5% at Rated output, from 40 Hz to 20 kHz, 8 ohms
Power Band Width	: 10 Hz – 30 kHz ('66 IHF both channels driven, 8 ohms, 0.5% THD)
Frequency Response	: 10 Hz – 30 kHz +1 dB, –3 dB (8 ohms)
Tone Controls	
BASS	: 100 Hz ±8 dB
TREBLE	: 10 kHz ±8 dB
Input Sensitivity/ Impedance	
PHONO	: 2.5 mV/47 kohms
TUNER, VIDEO/AUX, TAPE	: 160 mV/40 kohms
Phono Equalizer Deviation	: ±1.0 dB (40 Hz – 15 kHz)
Phono Overload	: 100 mV (1 kHz)
Signal to Noise Ratio	
PHONO	: 70 dB ('66 IHF)
TUNER VIDEO/AUX, TAPE	: 95 dB ('66 IHF)
Loudness Control (Volume Control at –30 dB position)	: +5 dB at 100 Hz,
Dimensions (mm/inch)	: 435(W) x 77(H) x 248(D) mm (17-1/8" x 3" x 9-3/4")
Weight (kg/lbs.)	: 4.0 kg (8.8 lbs.)

Power Specifications

Areas	Line Voltage & Frequency	Power Consumption
U.S.A. & Canada	AC 120V∿, 60 Hz	160 watts, 190 VA
Continental Europe	AC 220V∿, 50 Hz	100 watts
U.K. & Australia	AC 240V∿, 50 Hz	100 watts
Other Countries	AC 110/120/220/240V∿ selectable, 50/60 Hz	100 watts

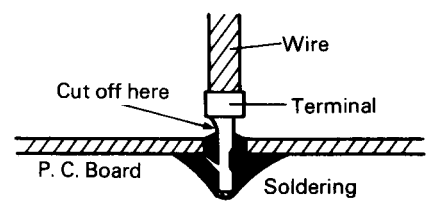
Design and specifications subject to change without notice.

2. Servicing Method For AWG #20 Wires With Clamping Terminals

(1) Application objective ⇨ Confirmation of safety
Used to prevent breakage/disconnection troubles of primary and secondary wires within P. C. Boards (or between P. C. Boards). Even when wire breakage/ disconnection has actually occurred, a safe air-gap distance between the primary wire and the secondary wire/possibly contacting metal surface can be maintained because the terminal retains the wire sheathing.

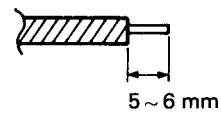
(2) Type of wire used
① 1015 AWG- #20 (single-coated)
② 1672 AWG- #20 (double-coated)

(3) Servicing precautions
① The structural design of this terminal causes its catch to hook onto the P. C. Board, preventing the wire from being easily pulled out. As shown in the figure, use cutting pliers or a similar tool to cut off the ends of the terminal and wire; then remove the remaining terminal clip by melting the soldering.

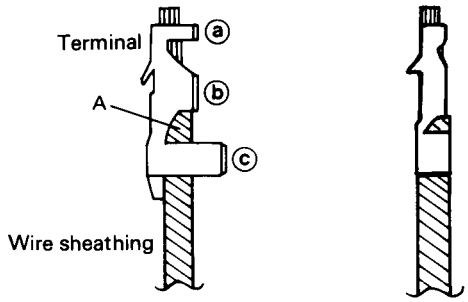


② Prior to soldering the wire onto the P. C. Board, confirm safety by pressure-fitting the terminal to the wire by observing the following procedures.

1. Strip off the wire 5 ~6 mm from its end.



2. Insert the wire until its sheathing contacts section "A" of the terminal and pressure-fit the terminal clamp at three sections of ⓐ, ⓑ, and ⓒ (section ⓒ is especially important to assure safety. Exercise particular care to achieve secure clamping).



③ Part No., and name
Parts No. : 5298T
Name : CRIMP PIN

3. Removal Procedures

3-(1) Metal cover section
1. Remove 5 screws securing the metal cover (2 for side panels and 3 for rear panel).
2. Pull out the metal cover backwards.

3-(2) Front panel section
1. Pull out the plastic rivet bushes by pressing it from the inside (Fig. 2).
2. Remove 3 screws from the bottom plate.

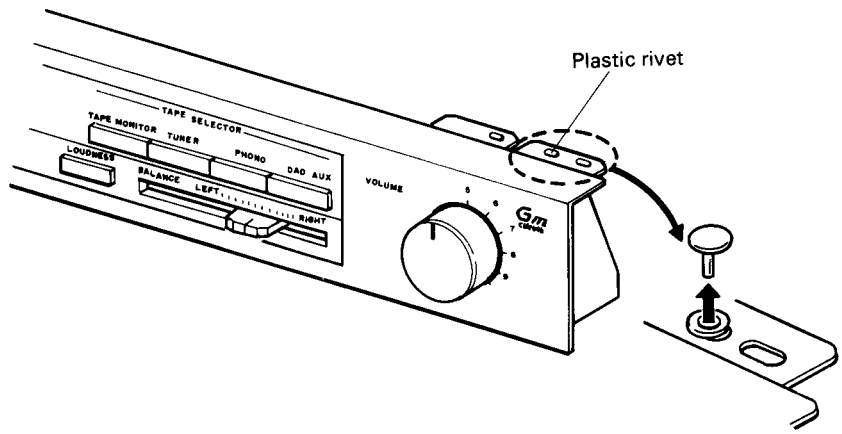


Fig. 2

3-(3) LED Holder section
1. Pull out the bass and treble knobs.
2. Moving the claw of the LED Holder to the center as shown in the figure below, pull out the LED holder (Fig. 3).

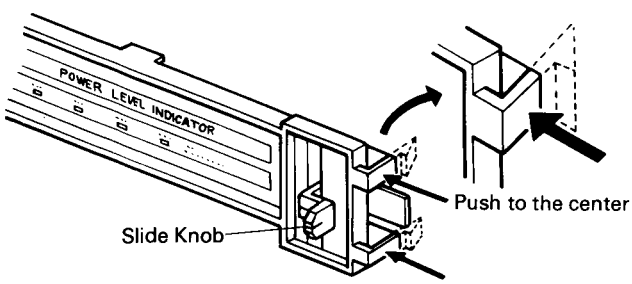


Fig. 3

3-(4) Level Indicator P. C. Board section
1. Remove the LED Holder (refer to 3-(3)).
2. Remove 4 screws from the LED Holder inside (Fig. 4).

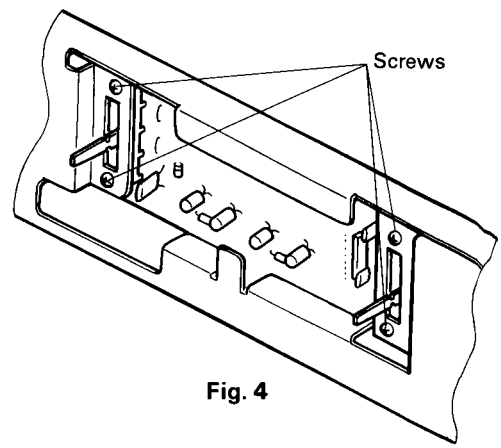


Fig. 4

3-(5) Power transistor replacement

1. Remove the metal cover (refer to 3-(1)).
2. Remove 2 screws from the main P. C. Board.
3. Remove the AC outlet (remove 2 screws from the rear panel).
4. Remove 4 screws from the leaf spring located on the heatsink and remove the heatsink.
5. Remove 11 screws from the bottom plate (6 for front side and 5 for rear side).

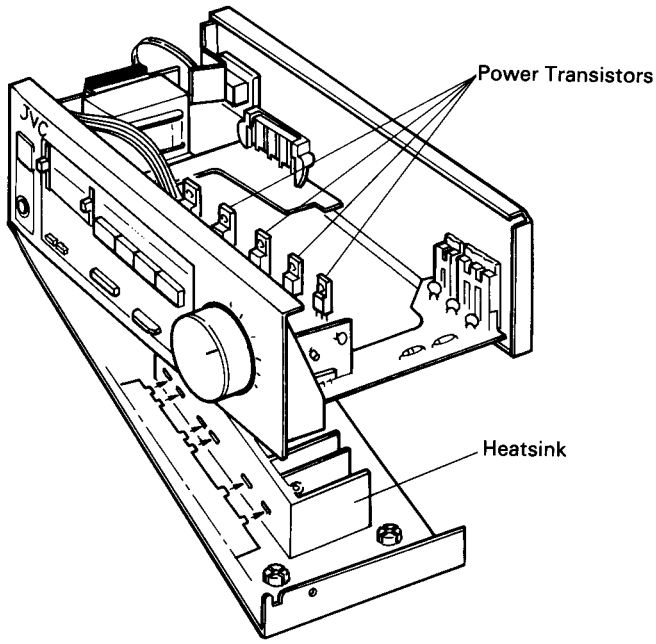


Fig. 5

NOTE:
Reassemble in the reverse order to removal. Do not forget to engage the protruded portions of the main P. C. Board with the grooves in the heatsink.

3-(6) Removal of the speaker selector knobs

1. As shown in Fig. 6, set the speaker selector switches to the out position, insert a (–) screwdriver into the slot in the knob shaft, disengage the knob shafts and pull out the speaker selector knobs.

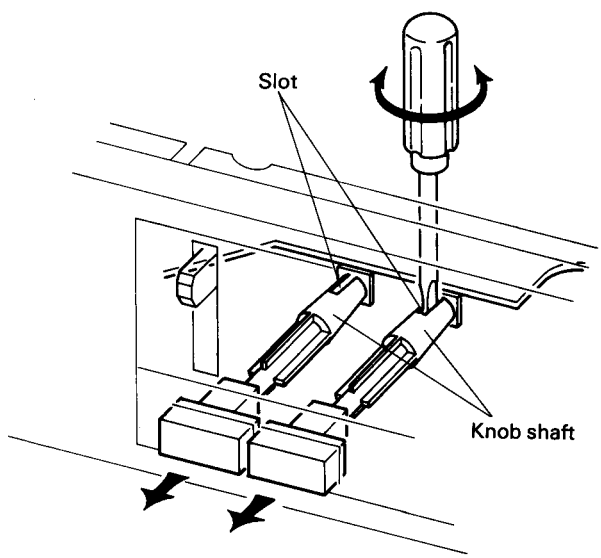
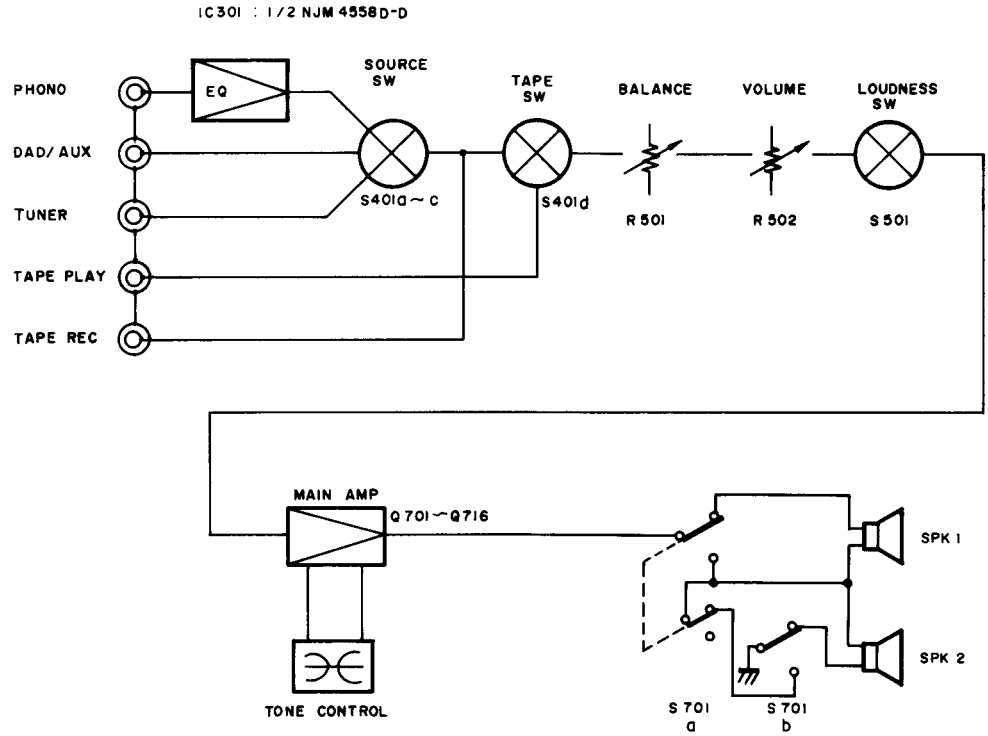


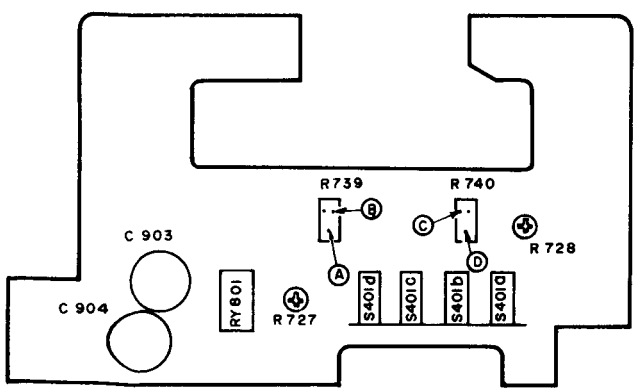
Fig. 6

4. Block Diagram



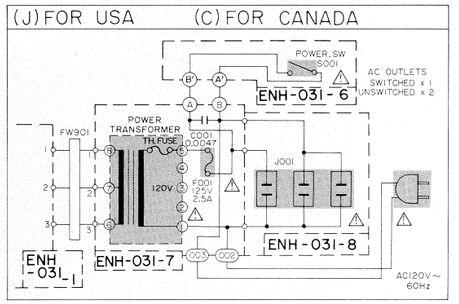
5. Power Amplifier Idling Current Adjustment Procedures

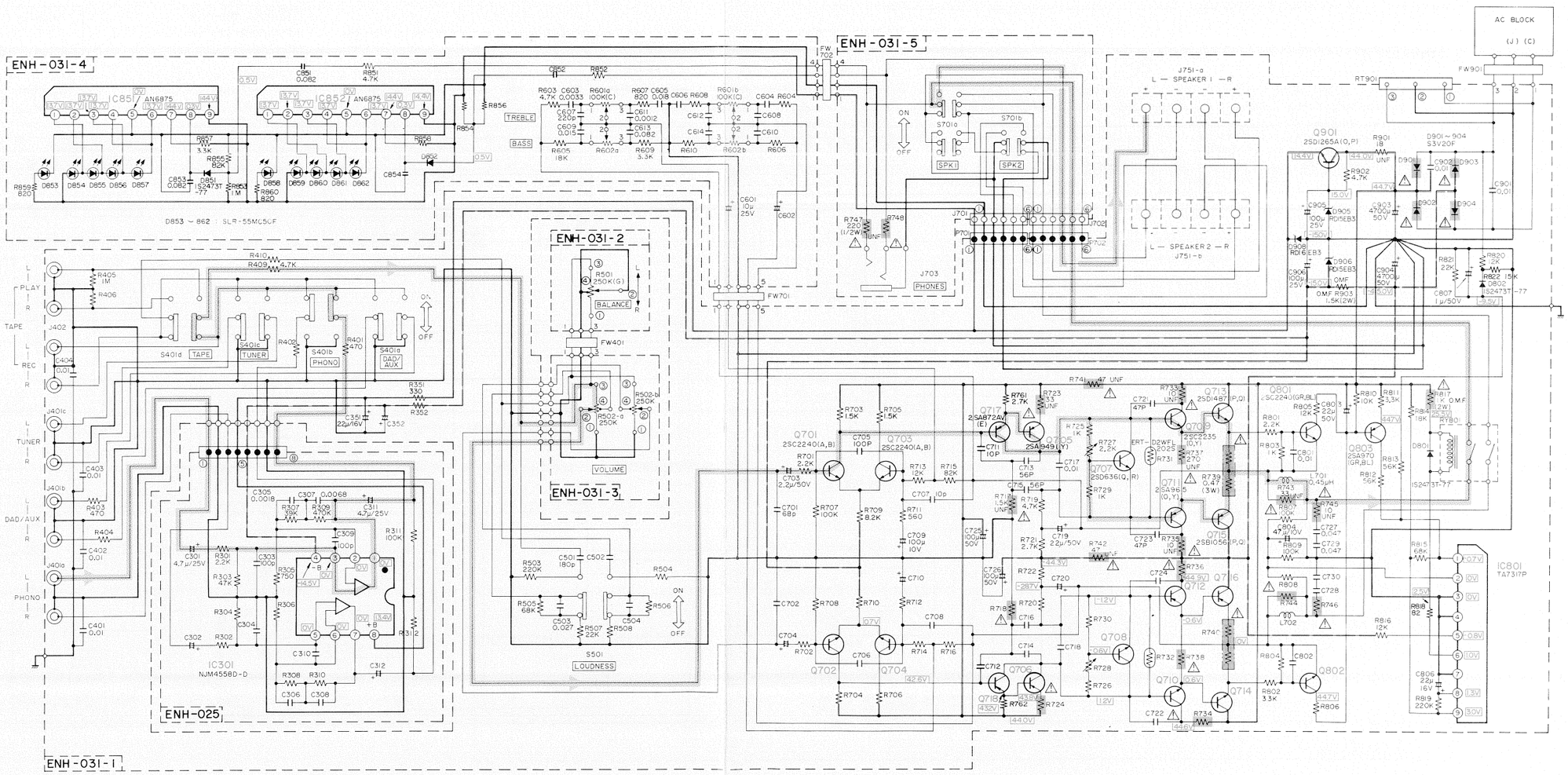
Adjustment Location on ENH-031-1 Main Amp. P.C. Board Ass'y



1. Before turing on the power, turn the semi-fixed resistors < R727 for L channel and R728 for R channel > of the power amplifier circuit board fully counterclockwise.
2. Adjust the semi-fixed resistors (R727) and (R728) so that the voltage at the following test points of the power amplifier circuit board is within a range of 1 mV ~ 3 mV after the power is turned on.
   L channel: Measure the voltage between test point Ⓑ (emitter of Q713 and output at the test point Ⓐ).
   R channel: Measure the voltage between test point Ⓓ (emitter of Q714 and output at the test point Ⓓ).
3. Readjust resistors R727 and R728 about 5 minutes after the power is turned on (the heatsink temperature must be sufficiently high) so that the voltage at the test points becomes 10 mV.
   Confirm that the voltage does not vary when the heatsink temperature increases further.

6-(2) A-K200 Schematic Diagram (for U.S.A. & Canada)

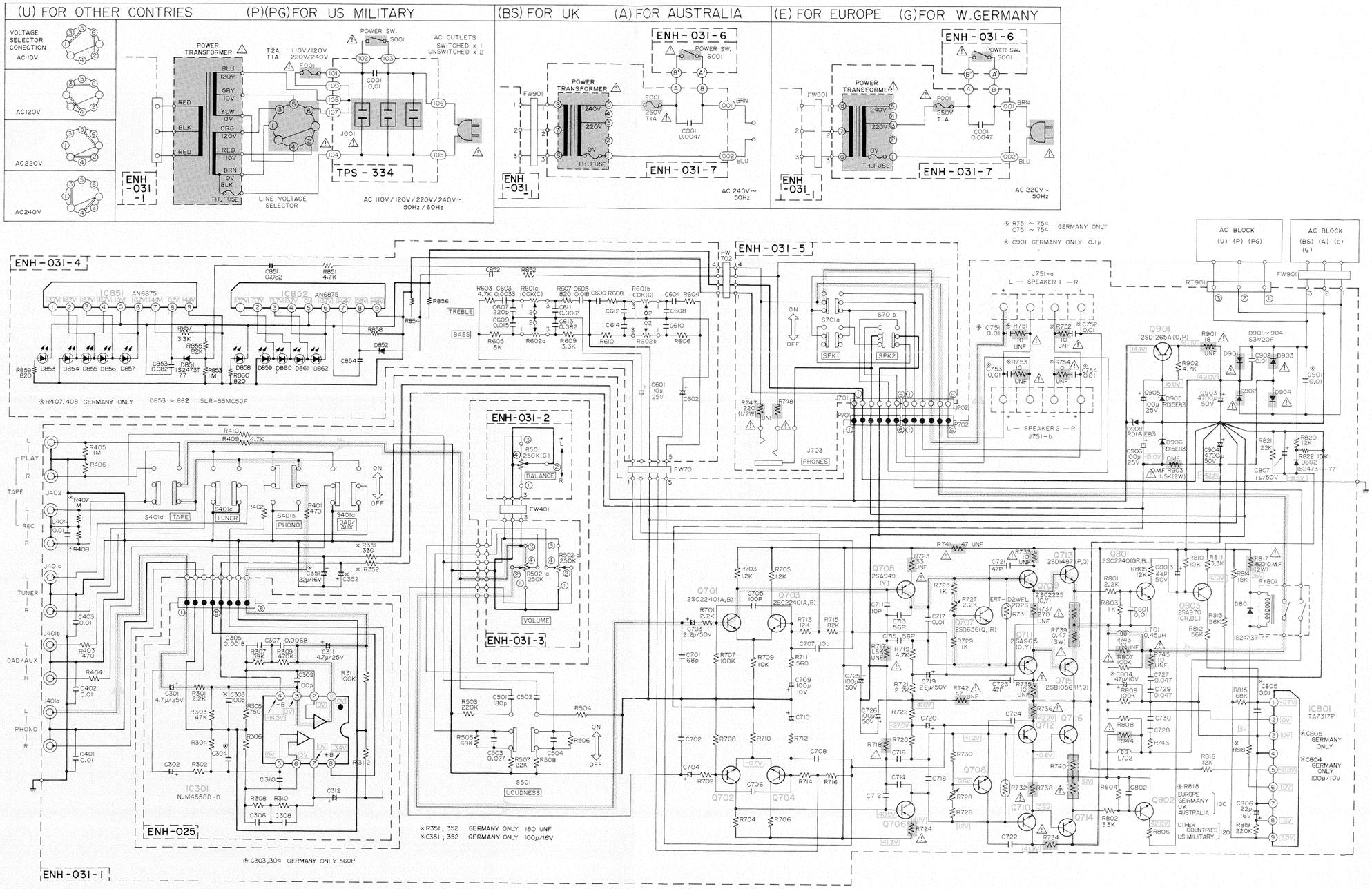




Notes:

1. ——— indicates positive B power supply.
2. - - - - indicates negative B power supply.
3. ▒▒▒ indicates signal path.
4. When replacing the parts in the darkned area (▒▒▒) and those marked with ⚠, be sure to use the designated parts to ensure safety.
5. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

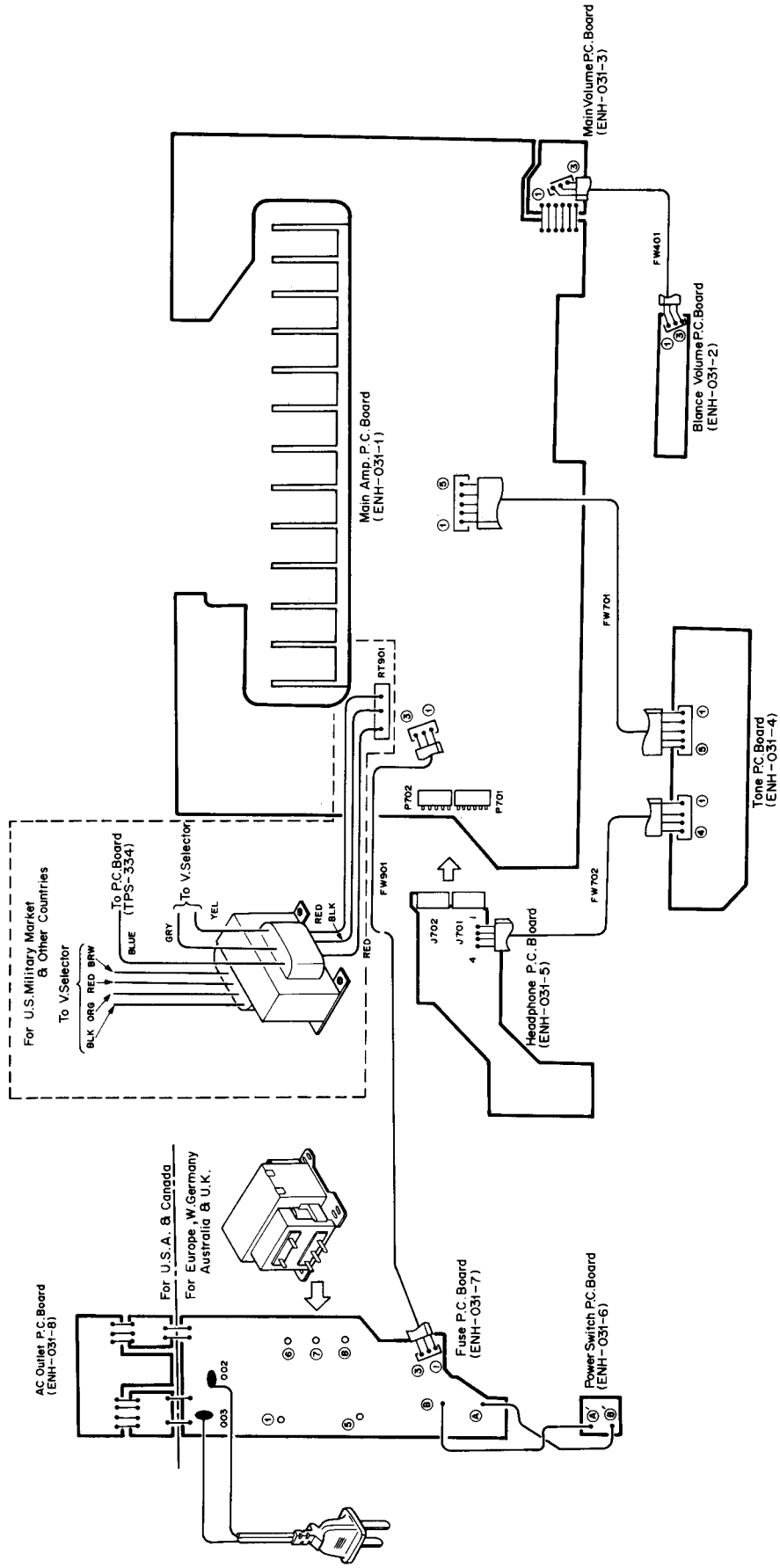
6-(1) A-K200 Schematic Diagram



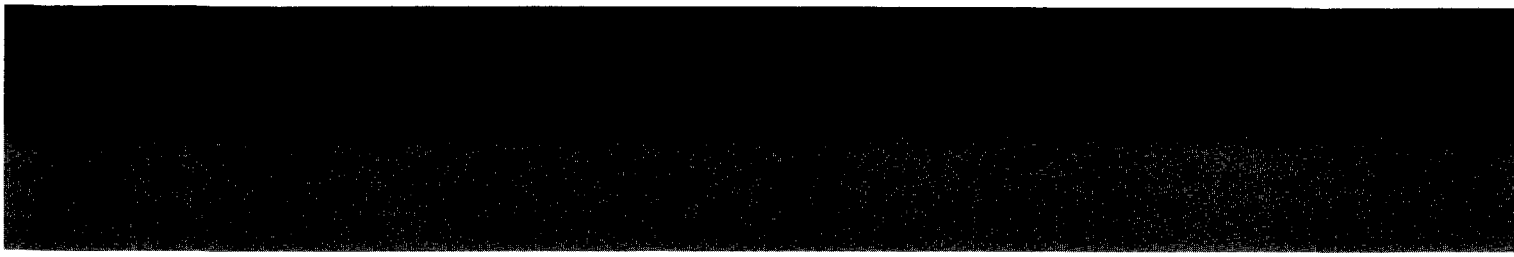
Notes:

1. ——— indicates positive B power supply.
2. - - - - indicates negative B power supply.
3. ▒▒▒ indicates signal path.
4. When replacing the parts in the darkned area (▒▒▒) and those marked with ⚠, be sure to use the designated parts to ensure safety.
5. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

7. Wiring Diagram



A-K200



JVC

VICTOR COMPANY OF JAPAN, LIMITED
STEREO DIVISION, YAMATO PLANT, 1644, SHIMOTSURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN

(No. 2737)

Printed in
5902-G

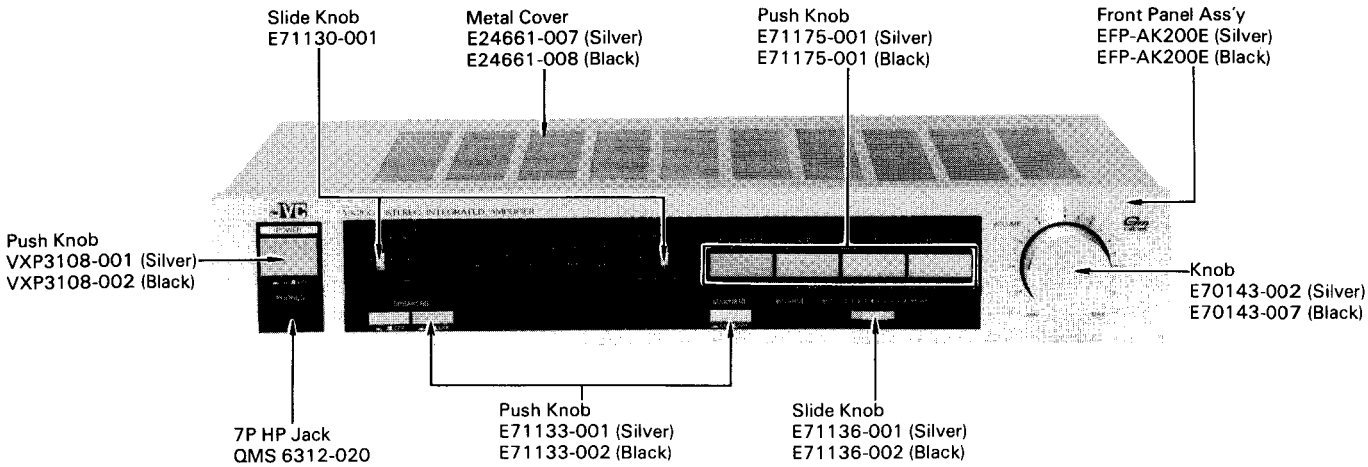
PARTS LIST

Contents

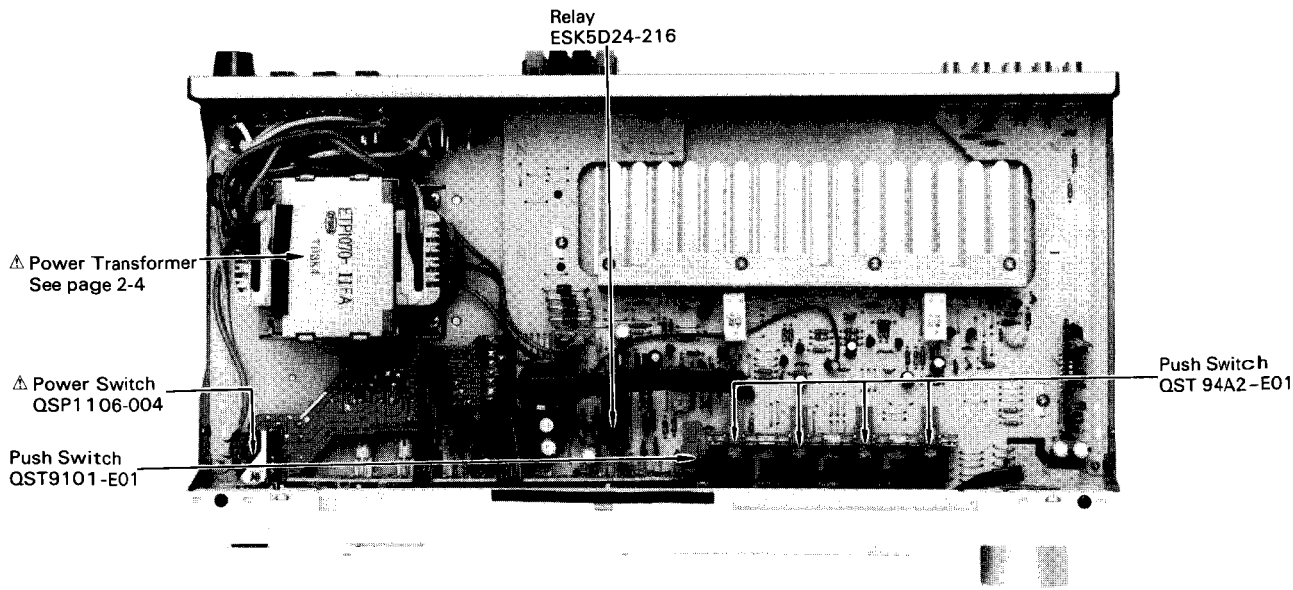
1. Main Parts Locations 2-2
2. Exploded View and Part Numbers List 2-3
3. Printed Circuit Board Ass'y and Parts List 2-6
   3-(1) ENH-031 Amplifier P.C. Board Ass'y 2-6
   3-(2) ENH-025 Mojulie P.C. Board Ass'y 2-10
4. Packing Materials and Part Numbers 2-12
5. Accessories List 2-13

1. Main Parts Locations

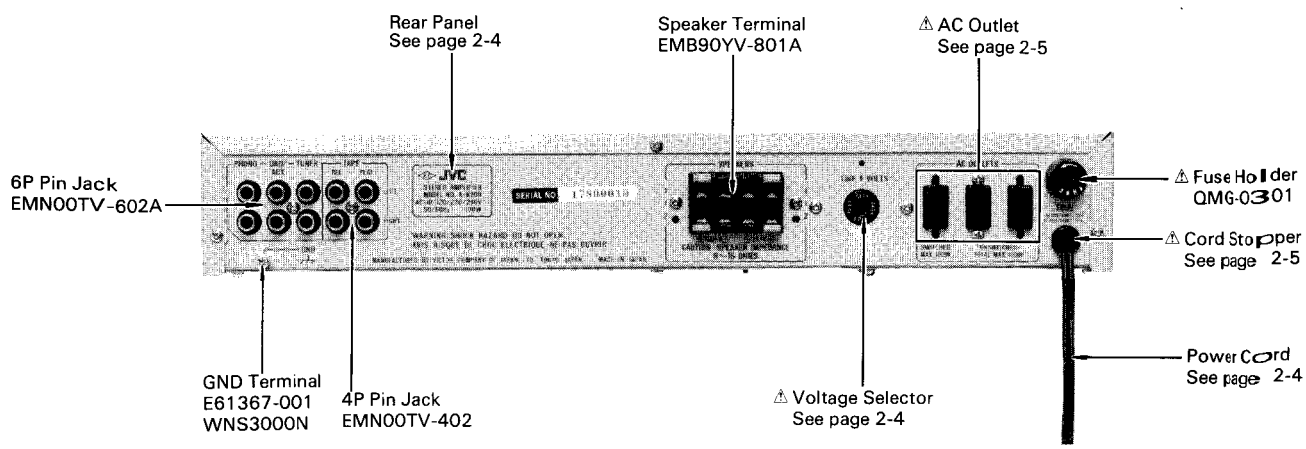
Front View



Top View



Rear View



⚠ : Safety Parts

No.	Part Number	Part Name	Q'ty	Description	Area
1	EFP-AK200E	Front Panel Ass'y	1	(S), E24679-002	
	ENP-AK200BE	Front Panel Ass'y	1	(B), E24679-006	
2	E24681-001	Front Bracket	1		
3	E24661-007	Metal Cover	1		
	E24661-008	Metal Cover	1		
4	E24658-003	Chassis Base	1		
5	E24677-007	Rear Panel	1	(S)	J, C
	E24677-008	Rear Panel	1	(S)	U, P, PG
	E24677-022	Rear Panel	1	(S)	E, A, G, BS
	E24677-023	Rear Panel	1	(S)	ES
	E24677-017	Rear Panel	1	(B)	J, C
	E24677-018	Rear Panel	1	(B)	U, P, PG
	E24677-025	Rear Panel	1	(B)	E, A, G, BS
	E24677-026	Rear Panel	1	(B)	ES
6	ENH-031H	Circuit Board Unit	1		J, C
	ENH-031I	Circuit Board Unit	1		U, P, PG
	ENH-031J	Circuit Board Unit	1		E, EG
	ENH-031K	Circuit Board Unit	1		A
	ENH-031M	Circuit Board Unit	1		G
	ENH-031LBS	Circuit Board Unit	1		BS
7	E303262-002	Heatsink	1		J, C
	E303262-003	Heatsink	1		U, P, PG, E, A, G, BS, ES
8	E303361-002	Leaf Spring	1		J, C
	E303361-001	Leaf Spring	1		U, P, PG, E, A, G, BS, ES
9 ⚠	ETP1070-11JA	Power Transformer	1		J, C
⚠	ETP1070-11FA	Power Transformer			U, P, PG
⚠	ETP1070-11EA	Power Transformer	1		E, A, G, ES
⚠	ETP1070-11EABS	Power Transformer	1		BS
10	E70143-002	Knob	1	(S), Volume	
	E70143-007	Knob	1	(B), Volume	
11	E71136-001	Balance Slide Knob	1	(S)	
	E71136-002	Balance Slide Knob	1	(B)	
12	E71132-003	Tone Slide Knob	2	(S)	
	E71132-004	Tone Slide Knob	2	(B)	
13	E303271-003SA	LED Holder Ass'y	1	(S)	
	E303271-004SA	LED Holder Ass'y	1	(B)	
14	VXP3108-001	Power Push Knob	1	(S), Switch	
	VXP3108-002	Power Push Knob	1	(B), Switch	
15	EX0100005N20S	Felt Spacer	1	Front Panel	
16	E48729-009	Plastic Rivet	2	Front Panel	
17	E71254-001	Felt Spacer	2	Tone	
18	E301258-002	Foot	4		
19	E70913-002	JVC Mark	1	(S)	
	E70913-001	JVC Mark	1	(B)	
20	E71227-001	Bracket	2		
21	E71133-001	Speaker Push Knob	1	(S), Loudness	
	E71133-002	Speaker Push Knob	1	(B), Loudness	
22	E71175-001	Push Knob	4	(S), Source	
	E71175-002	Push Knob	4	(B), Source	
23	E71235-001	Push Shaft	1	Loudness	
24	E71231-001	Push Shaft	4	Source	
25 ⚠	QRSO085-001U	Voltage Selector	1	(S)	U, P, PG
26	E61660-001	Special Screw	2	(S), Cover Side	
	E61660-004	Special Screw	2	(B), Cover Side	
27	E60912-003	Speed Nut	1		
28 ⚠	QMP1200-200	Power Cord	1		J, C
⚠	QMP7600-250	Power Cord	1		U, P, PG
⚠	QMP3900-200	Power Cord	1		E, G, ES
⚠	QMP2560-244	Power Cord	1		A
⚠	QMP9017-008BS	Power Cord	1		BS
29 ⚠	QHS3876-162	Cord Stopper	1		J, C, U, P, PG, E, A, G, ES
⚠	QHS3876-162BS	Cord Stopper	1		BS
30 ⚠	QMF51A2-2R0L	Fuse	1		P
⚠	QMF51A2-1R0L	Fuse	1		U, PG
31 ⚠	QMF51A2-1R0L	Fuse	1		A, E, ES, G
⚠	QMF51A2-1R0LBS	Fuse	1		BS
⚠	QMF51U1-2R5	Fuse	1		J, C
32	QMG0301-003	Fuse Holder	1		U, P, PG
33	E69589-001	Spacer	1	AC Outlets	J
34	E61367-001	GND Terminal	1		
35	E65389-002	Assy Screw	4	Transformer	
36	EXO050007N40S	Spacer	2	Transformer, F. Bracket	
37	E65119-001	Special Screw	2	Bracket	
38	E71552-001	Felt Spacer	1	Balance	
39	E70053-001	Screw	6	Tone, Balance	
40	E65119-001	Special Screw	2	Power SW	
41	SDSB3008N	Tapping Screw	2	(S), AC Outlets	J, C, U, P, PG
42	SBSB3008N	Tapping Screw	60		
43	TPS-334A	Circuit Board Assy	1		U, P, PG
44	QMC0637-004	Circuit Board Assy	1		J, C
45	E71133-001	Speaker Push Knob	2	(B)	
	E71133-002	Speaker Push Knob	2	(S)	
46	Y40525-002	Push Shaft	2	Speaker	
47	WNS3000N	Washer	1		
48	EX0050007N80S	Spacer	1	Chassis Base	
49	E69559-006	Spacer	1	Volume	

⚠: Safety Parts

(S) and (B) in the Description column indicate silver and black versions.

The Marks for Designated Areas

J..... U.S.A.
C..... Canada
E..... Europe
G..... West Germany
A..... Australia
P,PG..... U.S.Military Market
ES..... Spain
BS..... U.K.
U..... Other Countries

2. Exploded View and Part Numbers List

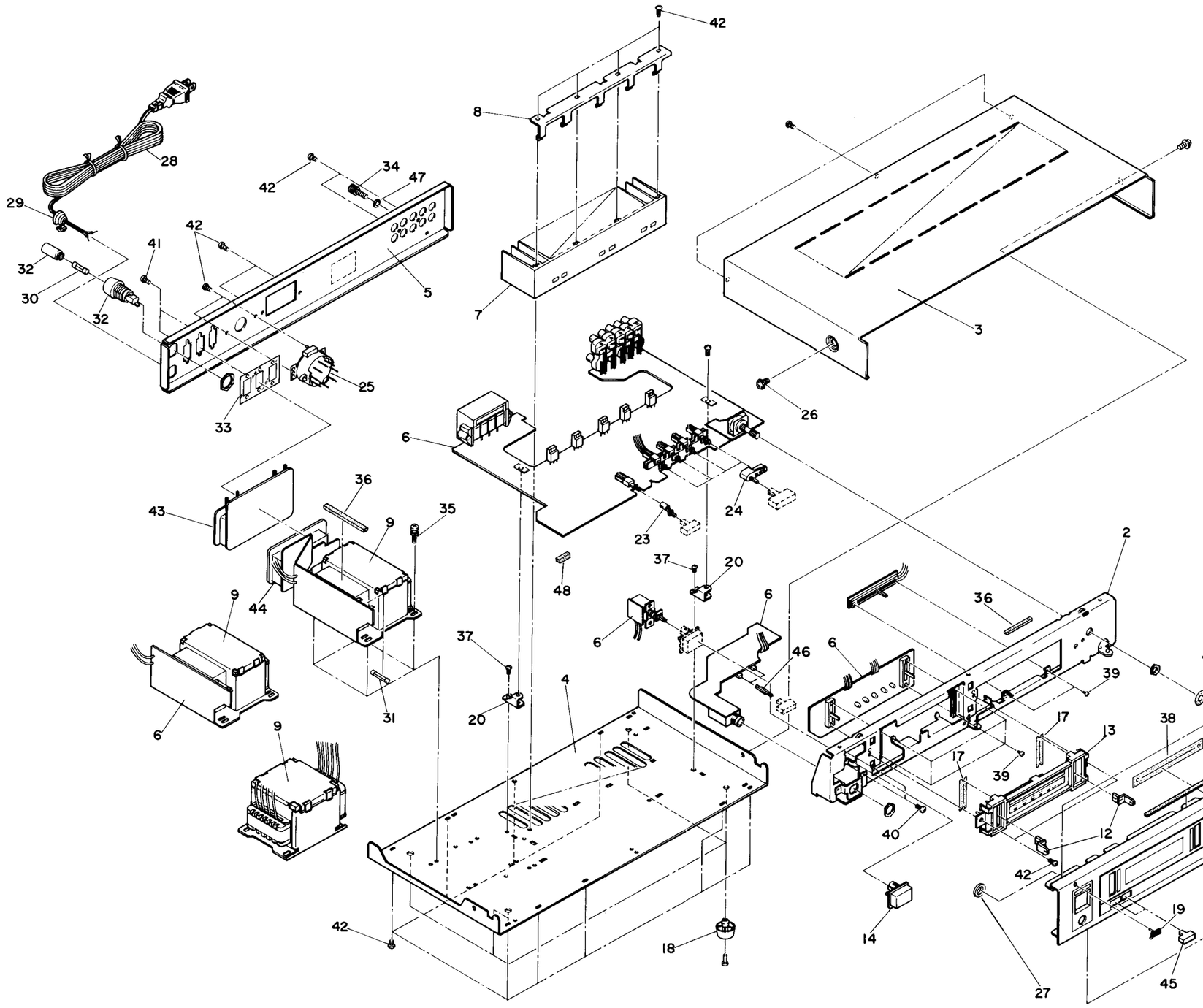


Fig. 1

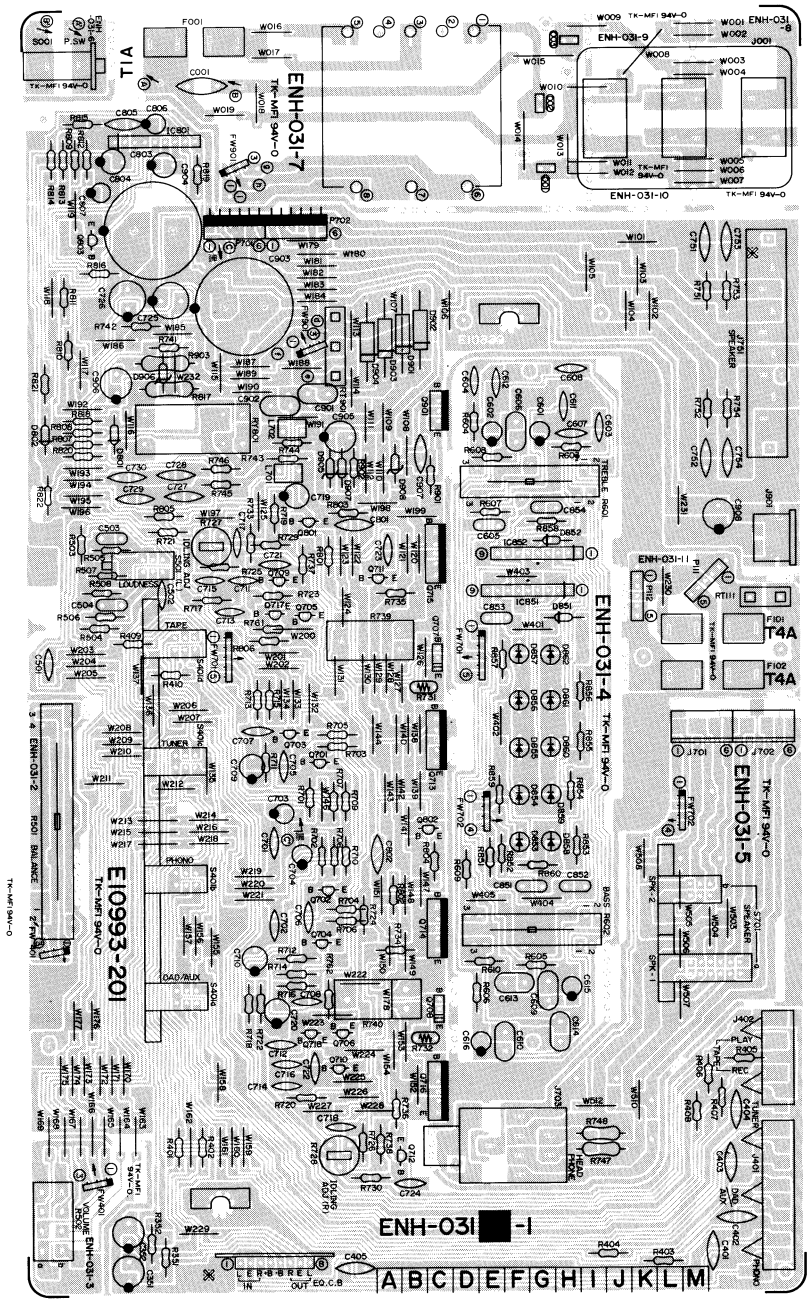
3. Printed Circuit Board Ass'y and Parts List

3-(1) ENH-031 □ Amplifier P.C. Board Ass'y
Note: ENH-031 □ varies according to the areas employed. See note (1) when placing an order.

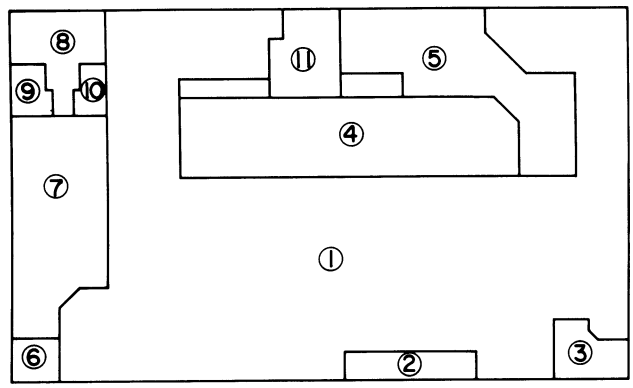
Note (1)

Designated Areas	P.C. Board Ass'y
U.S.A. & Canada	ENH-031 H
Other countries, U.S. Military Market	ENH-031 I
Europe	ENH-031 J
Australia	ENH-031 K
U.K.	ENH-031 LBS
West Germany	ENH-031 M

Note (2)
The symbols (赤 , 黒 , 白 ...etc.) on P.C. Board surface are factory process only.



Each Idividual P.C. Board Location



① ENH-031-1 Main Amp P. C. Board Ass'y
② ENH-031-2 Balance Volume P. C. Board Ass'y
③ ENH-031-3 Main Volume P. C. Board Ass'y
④ ENH-031-4 Tone P. C. Board Ass'y
⑤ ENH-031-5 Headphone P. C. Board Ass'y
⑥ ENH-031-6 Power Switch P. C. Board Ass'y
⑦ ENH-031-7 Fuse P. C. Board Ass'y
⑧ ENH-031-8 AC Outlet P. C. Board Ass'y
⑨ ENH-031-9 AC Outlet P. C. Board Ass'y
⑩ ENH-031-10 AC Outlet P. C. Board Ass'y

The Marks for Designated Areas

J..... U.S.A.	BS..... U.K.
E ..... Europe	G..... West Germany
A..... Australia	U..... Other Countries

Transistors

Item No.	Part Number	Description		□
			Maker	
Q701	2SC2240 (A, B)	Silicon	Toshiba	
Q702	2SC2240 (A, B)	Silicon	Toshiba	
Q703	2SC2240 (A, B)	Silicon	Toshiba	
Q704	2SC2240 (A, B)	Silicon	Toshiba	
Q705	2SA949 (Y)	Silicon	Toshiba	
Q706	2SA949 (Y)	Silicon	Toshiba	
Q707	2SD636 (Q, R)	Silicon	Matsushita	
Q708	2SD636 (Q, R)	Silicon	Matsushita	
Q709	2SC2235 (O, Y)	Silicon	Toshiba	
Q710	2SC2235 (O, Y)	Silicon	Toshiba	
Q711	2SA965 (O, Y)	Silicon	Toshiba	
Q712	2SA965 (O, Y)	Silicon	Toshiba	
Q713	2SD1487 (P, Q)	Silicon	Matsushita	
Q714	2SD1487 (O, Y)	Silicon	Matsushita	
Q715	2SB1056 (P, Q)	Silicon	Matsushita	
Q716	2SB1056 (P, Q)	Silicon	Matsushita	
Q717	2SA872 AV (E)	Silicon	Hitachi	J, C
Q718	2SA872 AV (E)	Silicon	Hitachi	J, C
Q801	2SC2240 (GR, BL)	Silicon	Toshiba	
Q802	2SC2240 (GR, BL)	Silicon	Toshiba	
Q803	2SA970 (GR, BL)	Silicon	Toshiba	
Q901	2SD1265A (O, P)	Silicon	Matsushita	

IC

Item No.	Part Number	Description		□
			Maker	
IC801	TA7317P		Toshiba	
IC851	AN6875		Matsushita	
IC852	AN6875		Matsushita	

Diodes

Item No.	Part Number	Description		□
			Maker	
D801	1S2473	Diode	Rohm	
D802	1S2473	Diode	Rohm	
D851	1S2473	Diode	Rohm	
D852	1S2473	Diode	Rohm	
D853	SLR-55MC50F	L.E.D.	Rohm	
D854	SLR-55MC50F	L.E.D.	Rohm	
D855	SLR-55MC50F	L.E.D.	Rohm	
D856	SLR-55MC50F	L.E.D.	Rohm	
D857	SLR-55MC50F	L.E.D.	Rohm	
D858	SLR-55MC50F	L.E.D.	Rohm	
D859	SLR-55MC50F	L.E.D.	Rohm	
D860	SLR-55MC50F	L.E.D.	Rohm	
D861	SLR-55MC50F	L.E.D.	Rohm	
D862	SLR-55MC50F	L.E.D.	Rohm	

⚠ :Safety Parts
The column maked with □ indicates the area.
Parts without character in the column are used commonly regardless of delivery area.

Item No.	Part Number	Description	Maker	□
D901 ⚠	S3V20F	Silicon	Shindengen	
D902 ⚠	S3V20F	Silicon	Shindengen	
D903 ⚠	S3V20F	Silicon	Shindengen	
D904 ⚠	S3V20F	Silicon	Shindengen	
D905	RD15EB3	Zener	NEC	
D906	RD15EB3	Zener	NEC	
D908	RD16EB3Y	Zener	NEC	

Coils

Item No.	Part Number	Description	□
L701	EQL0001-R45	Inductor	
L702	EQL0001-R45	Inductor	

Capacitors

Item No.	Part Number	Description			□
C001 ⚠	QCZ9019-472	Ceramic			
C001 ⚠	QCZ9019-472BS	Ceramic			BS
C351	QET61CM-226Z	Electro	22μ	16V	
C351	QET61CM-107Z	Electro	100μ	16V	G
C352	QET61CM-226Z	Electro	22μ	16V	
C352	QET61CM-107Z	Electro	100μ	16V	G
C401	QCF31HP-103Z	Ceramic	0.01μ	50V	
C402	QCF31HP-103Z	Ceramic	0.01μ	50V	
C403	QCF31HP-103Z	Ceramic	0.01μ	50V	
C404	QCF31HP-103Z	Ceramic	0.01μ	50V	
C503	QFN31HK-273Z	Mylar	0.027μ	50V	
C504	QFN31HK-273Z	Mylar	0.027μ	50V	
C601	QEK61EM-106Z	Electro	10μ	25V	
C602	QEK61EM-106Z	Electro	10μ	25V	
C603	QCY31HK-332Z	Ceramic	3300P	50V	
C604	QCY31HK-332Z	Ceramic	3300P	50V	
C605	QFN31HK-183Z	Mylar	0.018μ	50V	
C606	QFN31HK-183Z	Mylar	0.018μ	50V	
C607	QCY31HK-221Z	Ceramic	220P	50V	
C608	QCY31HK-221Z	Ceramic	220P	50V	
C609	QFN31HK-153Z	Mylar	0.015μ	50V	
C610	QFN31HK-153Z	Mylar	0.015μ	50V	
C611	QCY31HK-122Z	Ceramic	1200P	50V	
C612	QCY31HK-122Z	Ceramic	1200P	50V	
C613	QFN31HK-823	Mylar	0.082μ	50V	
C614	QFN31HK-823	Mylar	0.082μ	50V	
C701	QCS31HJ-680Z	Ceramic	68P	50V	
C702	QCS31HJ-680Z	Ceramic	68P	50V	
C703	QET61HM-225Z	Electro	2.2μ	50V	
C704	QET61HM-225Z	Electro	2.2μ	50V	
C705	QCS31HJ-101Z	Ceramic	100P	50V	
C706	QCS31HJ-101Z	Ceramic	100P	50V	
C707	QCS31HJ-100Z	Ceramic	10P	50V	
C708	QCS31HJ-100Z	Ceramic	10P	50V	
C709	QET61AM-107Z	Electro	100μ	10V	
C710	QET61AM-107Z	Electro	100μ	10V	
C711	QCS31HJ-100Z	Ceramic	10P	50V	
C712	QCS31HJ-100Z	Ceramic	10P	50V	
C713	QCS31HJ-560Z	Ceramic	56P	50V	
C714	QCS31HJ-560Z	Ceramic	56P	50V	
C715	QCS31HJ-560Z	Ceramic	56P	50V	
C716	QCS31HJ-560Z	ZCeramic	56P	50V	
C717	QCF31HP-103Z	Ceramic	0.01μ	50V	
C718	QCF31HP-103Z	Ceramic	0.01μ	50V	
C719	QET61HM-226Z	Electro	22μ	50V	
C719	QEH51HM-226	Electro	22μ	50V	J, C
C720	QET61HM-226Z	Electro	22μ	50V	
C721	QCS31HJ-470Z	Ceramic	47P	50V	
C722	QCS31HJ-470Z	Ceramic	47P	50V	
C723	QCS31HJ-470Z	Ceramic	47P	50V	
C724	QCS31HJ-470Z	Ceramic	47P	50V	
C725	QET51HM-476H	Electro	47μ	50V	
C726	QET51HM-476H	Electro	47μ	50V	
C727	QCF31HP-473Z	Ceramic	0.047μ	50V	
C728	QCF31HP-473Z	Ceramic	0.047μ	50V	
C729	QCF31HP-473Z	Ceramic	0.047μ	50V	
C730	QCF31HP-473Z	Ceramic	0.047μ	50V	
C751	QCF31HP-103Z	Ceramic	0.01μ	50V	G
C752	QCF31HP-103Z	Ceramic	0.01μ	50V	G
C753	QCF31HP-103Z	Ceramic	0.01μ	50V	G
C754	QCF31HP-103Z	Ceramic	0.01μ	50V	G
C801	QCF31HP-103Z	Ceramic	0.01μ	50V	
C802	QCF31HP-103Z	Ceramic	0.01μ	50V	
C803	QET61HM-226Z	Electro	22μ	50V	
C804	QET61AM-476Z	Electro	47μ	10V	
C804	QET61AM-107Z	Electro	100μ	10V	G
C805	QCF31HP-103Z	Ceramic	0.01μ	50V	G
C806	QET61CM-226Z	Electro	22μ	16V	
C807	QET61HM-105Z	Electro	1μ	50V	
C851	QFN31HK-823Z	Mylar	0.082μ	50V	
C853	QFN31HK-823Z	Mylar	0.082μ	50V	
C854	QFN31HK-823Z	Mylar	0.082μ	50V	
C901	QFM32AK-103Z	Mylar	0.01μ	100V	
C901	QFM32AK-104Z	Mylar	0.1μ	100V	G
C902	QFM32AK-103Z	Mylar	0.01μ	100V	
C903	QEZ0061-478	Electro	4700μ	50V	
C904	QEZ0061-478	Electro	4700μ	50V	
C905	QEH51EM-107	Electro	100μ	25V	
C906	QET61EM-107Z	Electro	100μ	25V	

Resistors

Item No.	Part Number	Description			□
R351 ⚠	QRD141J-331S	Carbon	330	1/4W	
R351 ⚠	QRD145J-181S	UNF Carbon	180	1/4W	G
R352 ⚠	QRD145J-331S	Carbon	330	1/4W	
R352 ⚠	QRD145J-181S	UNF Carbon	180	1/4W	G
R401	QRD141J-471S	Carbon	470	1/4W	
R402	QRD141J-471S	Carbon	470	1/4W	
R403	QRD141J-471S	Carbon	470	1/4W	
R404	QRD141J-471S	Carbon	470	1/4W	
R405	QRD141J-105S	Carbon	1M	1/4W	
R406	QRD141J-105S	Carbon	1M	1/4W	
R407	QRD141J-105S	Carbon	1M	1/4W	G
R408	QRD141J-105S	Carbon	1M	1/4W	G
R409	QRD141J-472S	Carbon	4.7K	1/4W	
R410	QRD141J-472S	Carbon	4.7K	1/4W	
R501	QVZ5021-001	Variable			
R502	QVD8A7B-AF5VA	Variable			
R505	QRD141J-683S	Carbon	68K	1/4W	

⚠ : Safety Parts
The column maked with □ indicates the area.
Parts without character in the column are used commonly regardless of delivery area.

Item No.	Part Number	Description			□
R506	QRD141J-683S	Carbon	68K	1/4W	
R507	QRD141J-223S	Carbon	22K	1/4W	
R508	QRD141J-223S	Carbon	22K	1/4W	
R601	QVZ5309-002	Variable			
R602	QVZ5309-002	Variable			
R603	QRD141J-472S	Carbon	4.7	1/4W	
R604	QRD141J-472S	Carbon	4.7	1/4W	
R605	QRD141J-183S	Carbon	18K	1/4W	
R606	QRD141J-183S	Carbon	18K	1/4W	
R607	QRD141J-821S	Carbon	820	1/4W	
R608	QRD141J-821S	Carbon	820	1/4W	
R609	QRD141J-332S	Carbon	3.3K	1/4W	
R610	QRD141J-332S	Carbon	3.3K	1/4W	
R701	QRD141J-222S	Carbon	2.2K	1/4W	
R702	QRD141J-222S	Carbon	2.2K	1/4W	
R703	QRD141J-122S	Carbon	1.2K	1/4W	
R704	QRD141J-122S	Carbon	1.2K	1/4W	
R705	QRD141J-122S	Carbon	1.2K	1/4W	
R706	QRD141J-122S	Carbon	1.2K	1/4W	
R707	QRD141J-104S	Carbon	100K	1/4W	
R708	QRD141J-104S	Carbon	100K	1/4W	
R709	QRD141J-103S	Carbon	10K	1/4W	
R710	QRD141J-103S	Carbon	10K	1/4W	
R711	QRD141J-561S	Carbon	560	1/4W	
R712	QRD141J-561S	Carbon	560	1/4W	
R713	QRD141J-123S	Carbon	12K	1/4W	
R714	QRD141J-123S	Carbon	12K	1/4W	
R715	QRD141J-823S	Carbon	82K	1/4W	
R716	QRD141J-823S	Carbon	82K	1/4W	
R717 ⚠	QRD145J-152S	UNF Carbon	1.5K	1/4W	
R718 ⚠	QRD145J-152S	UNF Carbon	1.5K	1/4W	
R719	QRD141J-472S	Carbon	4.7K	1/4W	
R720	QRD141J-472S	Carbon	4.7K	1/4W	
R721	QRD141J-272S	Carbon	2.7K	1/4W	
R722	QRD141J-272S	Carbon	2.7K	1/4W	
R723 ⚠	QRD145J-330S	UNF Carbon	33	1/4W	
R724 ⚠	QRD145J-330S	UNF Carbon	33	1/4W	
R725	QRD141J-102S	Carbon	1K	1/4W	
R726	QRD141J-102S	Carbon	1K	1/4W	
R727	QVP4A0B-222	Variable			
R728	QVP4A0B-222	Variable			
R729	QRD141J-102S	Carbon	1K	1/4W	
R730	QRD141J-102S	Carbon	1K	1/4W	
R731	ERT-D2WFL202S	Thermistor			
R732	ERT-D2WFL202S	Thermistor			
R733 ⚠	QRD145J-100S	UNF Carbon	10	1/4W	
R734 ⚠	QRD145J-100S	UNF Carbon	10	1/4W	
R735 ⚠	QRD145J-100S	UNF Carbon	10	1/4W	
R736 ⚠	QRD145J-100S	UNF Carbon	10	1/4W	
R737 ⚠	QRD145J-271S	UNF Carbon	270	1/4W	
R738 ⚠	QRD145J-271S	UNF Carbon	270	1/4W	
R739 ⚠	ERF032K-R47	Cemment	0.47	3W	
R740 ⚠	ERF032K-R47	Cemment	0.47	3W	
R741 ⚠	QRD145J-470S	UNF Carbon	47	1/4W	
R742 ⚠	QRD145J-470S	UNF Carbon	47	1/4W	
R743 ⚠	QRD145J-330S	UNF Carbon	33	1/4W	
R744 ⚠	QRD145J-330S	UNF Carbon	33	1/4W	
R745 ⚠	QRD145J-100S	UNF Carbon	10	1/4W	
R746 ⚠	QRD145J-100S	UNF Carbon	10	1/4W	
R747 ⚠	QRD125J-221	UNF Carbon	220	1/2W	

Item No.	Part Number	Description			□
R748 ⚠	QRD125J-221	UNF Carbon	220	1/2W	
R751 ⚠	QRD145J-100S	UNF Carbon	10	1/4W	G
R761	QRD141J-272S	Carbon	2.7K	1/4W	J, C
R762	QRD141J-272S	Carbon	2.7K	1/4W	J, C
R801	QRD141J-222S	Carbon	2.2K	1/4W	
R802	QRD141J-222S	Carbon	2.2K	1/4W	
R803	QRD141J-102S	Carbon	1K	1/4W	
R804	QRD141J-102S	Carbon	1K	1/4W	
R805	QRD141J-123S	Carbon	12K	1/4W	
R806	QRD141J-123S	Carbon	12K	1/4W	
R807	QRD141J-104S	Carbon	12K	1/4W	
R808	QRD141J-104S	Carbon	100K	1/4W	
R809	QRD141J-104S	Carbon	100	1/4W	
R810	QRD141J-103S	Carbon	10K	1/4W	
R811	QRD141J-332S	Carbon	3.3	1/4W	
R812	QRD141J-563S	Carbon	56K	1/4W	
R813	QRD141J-563S	Carbon	56K	1/4W	
R814	QRD141J-183S	Carbon	18K	1/4W	
R815	QRD141J-683S	Carbon	68K	1/4W	
R816	QRD141J-123S	Carbon	12K	1/4W	
R817 ⚠	QRG022J-102A	O.M. Film	1K	2W	J, C
R817 ⚠	QRG022J-821A	O.M. Film	820	2W	
R818	QRD141J-820S	Carbon	82	1/4W	J, C
R818	QRD141J-121S	Carbon	120	1/4W	U,P,PG
R818	QRD141J-101S	Carbon	100	1/4W	E,A,G,BS
R819	QRD141J-224S	Carbon	220K	1/4W	
R820	QRD141J-123S	Carbon	12K	1/4W	
R821	QRD141J-222S	Carbon	22K	1/4W	
R822	QRD141J-153S	Carbon	15K	1/4W	
R851	QRD141J-472S	Carbon	4.7K	1/4W	
R852	QRD141J-472S	Carbon	4.7K	1/4W	
R853	QRD141J-472S	Carbon	1M	1/4W	
R854	QRD141J-105S	Carbon	1M	1/4W	
R855	QRD141J-823S	Carbon	82K	1/4W	
R856	QRD141J-823S	Carbon	82K	1/4W	
R857	QRD141J-332S	Carbon	3.3K	1/4W	
R858	QRD141J-332S	Carbon	3.3K	1/4W	
R859	QRD141J-821S	Carbon	820	1/4W	
R860	QRD145J-821S	Carbon	820	1/4W	
R901 ⚠	QRD145J-180S	UNF Carbon	18	1/4W	J, C
R901 ⚠	QFM32AK-104Z	Mylar	0.1μ	100V	G
R902	QRD141J-472S	Carbon	4.2K	1/4W	
R903 ⚠	QRG022J-152A	O.M. Film	1.5K	2W	

Others

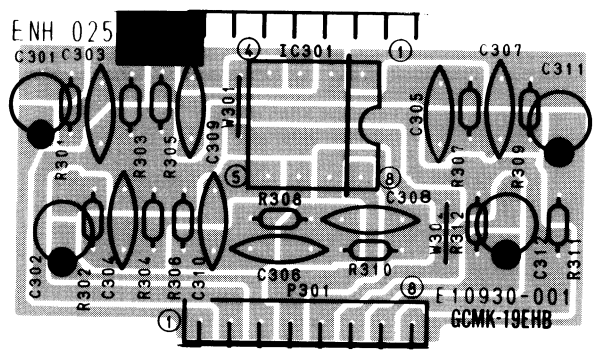
Item No.	Part Number	Part Name	Description	□
	E10993-201	P.C. Board		
	E10993-201BS	P.C. Board		BS
J401	EMN00TV-602A	6P Pin Jack	PH. DAD. TU	
J402	EMN00TV-402A	4P Pin Jack	Tape	
J701	E04370-006B	6P Connector		
J702	E04370-006B	6P Connector		
J703	QMS6302-128	HP Jack		
J751	EMBYV-801A	Speaker Terminal		
P701	QMV5004-006	6P Plug Assy		
P702	QMV5004-006	6P Plug Assy		
	ENH-025A	Mojulie C B Assy		
	ENH-025E	Mojulie C B Assy		U
S001 ⚠	QSP1106-004	Power Switch		

⚠: Safty Parts
The column maked with □ indicates the area.
Parts without character in the column are used commonly regardless of delivery area.

Item No.	Part Number	Part Name	Description	□
S001 ⚠	QSP1106-004BS	Power Switch		BS
S401	QST94A2-E01	Push Switch		
S501	QST9101-E01	Push Switch	Loudness	
S701	QST9261-E02	Push Switch		
	E70859-001	Earth Plate		
	QXY123-010Y	Bus Wire I/M		
	E03719-15.0	Forming Bus Wire		J, C
FW401	EWR33B-08SS	Flat Wire Assy		
FW701	EWR34B-20SS	Flat Wire Assy		
FW702	EWR34B-13SS	Flat Wire Assy		
FW901	EWR33B-25SS	Flat Wire Assy		
RY801	ESK5D24-216	Relay		
RT901	E67764-103	R. Terminal		P, U
	EMG7331-001	Fuse Clip		
	E65508-002	Tab		
⚠	QMC0637-004	3P AC Outlet		J, C

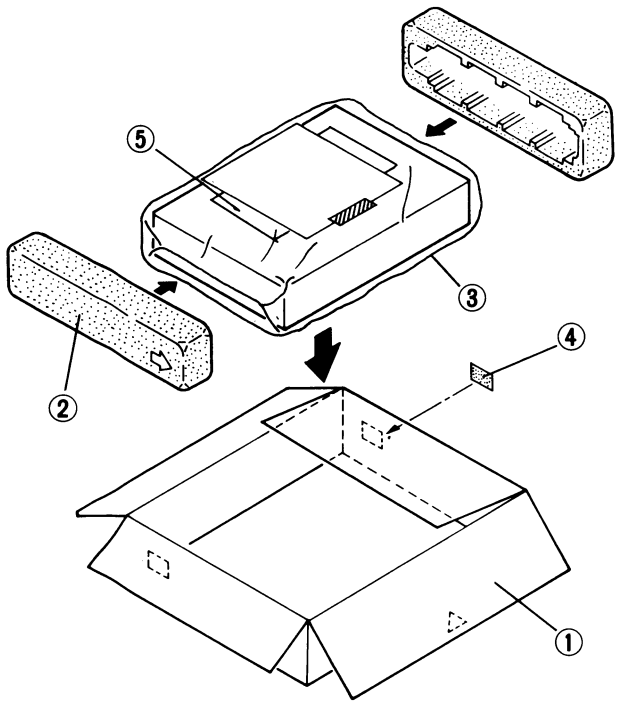
⚠: Safty Parts
The column maked with □ indicates the area.
Parts without character in the column are used commonly regardless of delivery area.

3-(2) ENH-025 □ Mojulie P. C. Board Ass'y



Item No.	*Part Number	Description			□
				Maker	
IC301	NJM4558D	IC		Dainchi	
C301	QEK61EM-475Z	Electro	4.7μ	25V	
C302	QEK61EM-475Z	Electro	4.7μ	25V	
C303	QCY31HK-101Z	Ceramic	100P	50V	
C303	QCY31HK-561Z	Ceramic	560P	50V	G
C304	QCY31HK-101Z	Ceramic	100P	50V	
C304	QCY31HK-561Z	Ceramic	560P	50V	G
C305	QCY31HK-182Z	Ceramic	1800P	50V	
C306	QCY31HK-182Z	Ceramic	1800P	50V	
C307	QCY31HK-682Z	Ceramic	6800P	50V	
C308	QCY31HK-682Z	Ceramic	6800P	50V	
C309	QCY31HK-101Z	Ceramic	100P	50V	
C310	QCY31HK-101Z	Ceramic	100P	50V	
C311	QEK61EM-475Z	Electro	4.7μ	25V	
C312	QEK61EM-475Z	Electro	4.7μ	25V	
R301	QRD161J-222	Carbon	2.2K	1/4W	
R302	QRD161J-222	Carbon	2.2K	1/4W	
R303	QRD161J-473	Carbon	47K	1/4W	
R304	QRD161J-473	Carbon	47K	1/4W	
R305	QRD161J-751	Carbon	450	1/4W	
R306	QRD161J-751	Carbon	750	1/4W	
R307	QRD161J-393	Carbon	39K	1/4W	
R308	QRD161J-393	Carbon	39K	1/4W	
R309	QRD161J-474	Carbon	470K	1/4W	
R310	QRD161J-474	Carbon	470K	1/4W	
R311	QRD161J-104	Carbon	100K	1/4W	
R312	QRD161J-104	Carbon	100K	1/4W	
	E10930-001	Circuit Board			
P301	EMV5101-008B	Plug Ass'y			

4. Packing Materials and Part Numbers



The Marks for Designated Areas

U..... U.S.A.	P,PG..... U.S.Military Market
C..... Canada	ES..... Spain
E ..... Europe	BS..... U.K.
G..... West Germany	U.....Other Countries
A..... Australia	

No.	Part Number	Part Name	Q'ty	Description	Area
1	PK-AK200E	AK200 Packing Case	1	(S), E300382-382	J, C, U, P, PG, E, A, G, BS
	PK-AK200ES	AK200 Packing Case	1	(S), E300382-383	ES
	PK-AK200EBS	AK200 Packing Case	1	(B), E300382-385	J, C, U, P, PG, E, A, G, BS
	PK-AK200EB	AK200 Packing Case	1	(B), E300382-386	ES
2	NZ-AK200E	Packing Pad	1	E24778-001 (R)	
	NZ-AK100E	Packing Pad	1	E24778-002 (L)	
3	E68142-011	Protect Sheet	1		J, C, U, P, PG, E, A, G, ES
	E68142-011B	Protect Sheet	1		BS
4	E35246-004	Serial Label	2		E
	E35246-001	Serial Label	2		J, C, U, P, PG, A, BS, ES
	E35246-006	Serial Label	2		G
5	E35497-013	110V Caution Sheet	1		U, P, G
	E35497-014	120V Caution Sheet	1		U, P, G
	E35497-015	220V Caution Sheet	1		U, P, G
	E35497-016	240V Caution Sheet	1		U, P, G

(S) and (B) in the Description column indicate silver and black versions.

5. Accessories List

Part Name	Part Number	Area
Siemens Plug	E04056	U, P, PG
Warning Label	E60965-001BS	BS
Tie Band	E33754-001	BS
Instruction Book	E30580-1172A	J, C, U, P, PG, E, A, G, ES
Instruction Book	E30580-1172ABS	BS
Envelope (for Fuse)	E6581-4	U, P, PG
Envelope (for Instruction Book)	E41202-2	J, C, U, P, PG, E, A, G, ES
Envelope (for Instruction Book)	E41202-2B	BS
Envelope (for Warranty Card)	E66416-003	J
JVC Safety Instruction Sheet	BT20044D	J
JVC Service Information Card	BT20046B	J, P, G
Warranty Card	BT20025F	C
Service Center List	BT20071	C
A. Warranty Card	BT 20029C	A
F.T.Z. Information Card	BT20054-006A	G
Warranty Card	BT20064	G
G. Warranty Card	BT20064	G
EEC Agency	BT20066	G, BS
BS Warranty Card	BT20060	BS
Fuse Label (2A)	E67142-T2RO	PG, U
Fuse Label (1A)	E67142-T1RO	P
Fuse Primary (2A, 250V)	QMF51A2-1RQL	PG, U
Fuse Primary (1A, 250V)	QMF51A2-1RQL	P

The Marks for Designated Areas

J..... U.S.A.
C..... Canada
E ..... Europe
G..... West Germany
A..... Australia
P,PG..... U.S.Military Market
ES..... Spain
BS..... U.K.
U..... Other Countries